

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (Currently Amended) An information processing apparatus including,
a processing control-device for performing predetermined processing of information, and
a bus for interconnecting said processing control-device and other component devices of said information processing apparatus,
wherein characterized in that said processing control device is integrated on a single semiconductor chip, internally generates in which key information, and internally encrypts is generated and in which sensitive information is encrypted with said generated key information, and
wherein said processing device deletes said key information in said single semiconductor chip if an abnormality is detected.
2. (Currently Amended) An information processing apparatus as claimed in claim 1,
wherein said processing control-device comprises an external bus controller for preventing non-encrypted sensitive information from being output onto said bus.
3. (Original) An information processing apparatus as claimed in claim 2;

wherein information not requiring encryption is output onto said bus through said external bus controller.

4. (Currently Amended) An information processing apparatus as claimed in claim 1, wherein a memory device is provided for storing information encrypted by said processing control-device.

5. (Currently Amended) An information processing apparatus as claimed in claim 1, wherein said processing control-device comprises means for decrypting encrypted information at an information write operation.

6. (Original) An information processing apparatus as claimed in claim 5, wherein said information processing apparatus is connected to a different information processing apparatus through a network, and wherein said information processing apparatus decrypts encrypted information which is received from said different information processing apparatus.

7. (Original) An information processing apparatus as claimed in claim 1, wherein a plurality of said processing devices are provided, and cryptographic processing is carried out in each of said processing devices.

8. (Original) An information processing apparatus as claimed in claim 1,

wherein said processing device comprises means for receiving an encrypted program and for carrying out decryption thereof.

9. (Currently Amended) An information processing apparatus as claimed in claim 1

wherein said processing device comprises:

a microprocessor for carrying out said predetermined processing;

a generator for generating said key information;

a cryptographic algorithm memory device for storing an algorithm for information cryptographic processing;

a volatile memory device for storing said generated key information;

a cryptographic processing device for carrying out cryptographic processing with said stored key information according to said algorithm; and

a microprocessor bus for interconnecting said microprocessor, said generator, said cryptographic processing algorithm memory device, said volatile memory device and said cryptographic processing device, and

wherein a power supply to said volatile memory is stopped so as to delete said key information in said single semiconductor chip if said abnormality is detected.

10. (Currently Amended) A disk system controller, including a processing device for carrying out information processing to control a magnetic disk for storing encrypted information,

~~characterized in that~~ wherein said disk system controller, upon receipt of a

request for reading out said encrypted information, internally generates key
information is generated in a single semiconductor chip on which said processing
device is integrated, reads out encrypted file location information indicating a location
of information stored on said magnetic disk is read out from said magnetic disk,
internally decrypts is decrypted in a semiconductor chip on which said processing
device is integrated, and according to the decrypted said encrypted file location
information thus read out in said single semiconductor chip, according to the
decrypted file location said encrypted information, is reads out of said encrypted
information from said magnetic disk, and deletes said key information in said single
semiconductor chip if an abnormality is detected.

11. (Original) A disk system controller as claimed in claim 10,

wherein said disk controller is connected to a plurality of magnetic disks.

12. (Original) A disk system controller as claimed in claim 10,

wherein said disk system controller is connected to an information processing
apparatus, and

wherein said disk system controller reads out said encrypted information from
said magnetic disk upon receipt of a request therefrom.

13. (New) An information processing apparatus as claimed in claim 1,

wherein said processing device generates said key information each time sensitive information is encrypted.

14. (New) An information processing apparatus as claimed in claim 1,
wherein said abnormality is a disassembly or removal of a case or housing of said processing device.

15. (New) An information processing apparatus as claimed in claim 1,
wherein said key information is a random number, and
wherein said generator generates said random number based on a signal outputted from a constant voltage diode.